ANNUAL REPORT

OF THE

VETERINARY SERVICES DIVISION

FOR THE

PROVINCE OF ALBERTA

1971

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

EDMONTON, ALBERTA
Printed by L. S. WALL, Queen's Printer for Alberta

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This report is in two parts. Pages 1 - 21 outline the work carried out. Pages 22 - 84 detail the results of that work.

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VETERINARY SERVICES DIVISION

J. G. O'Donoghue, D.V.M., Director

Laboratory and field workloads reflected the increased livestock numbers and the dollar investment they represented.

The pilot veterinary clinic at Fairview experienced minor financial problems but appeared to have been well received by the livestock owners. Service demands approached the limits of capability of the one veterinary practitioner.

Time was given to the continued study of the basic problem of providing veterinary service to all livestock producers.

The occurrence of laryngotracheitis in epidemic proportions in the Fraser Valley in April led to restrictions being placed on the movement of poultry and eggs into Alberta from British Columbia. This province remained free of the disease and less restrictive measures remained in force at the year's end.

Abortion in cattle was a major cause of concern. In some 350 herds, losses as high as 60% of the calf crop were reported. The virus of infectious bovine rhinotracheitis was identified as the cause on 151 premises. Unusual calf losses initiated a major investigation into what is popularly referred to as the "weak calf" syndrome.

Rabies continued from the fall of 1970 to April 1971 and was diagnosed in 7 coyotes, 7 bovines, 2 skunks, and 2 dogs. There was reason to believe that the joint control efforts of

Agriculture, Lands and Forests, and Federal veterinarians were successful. Later, three additional diagnoses were made in bats, a species that presents a different epidemiological situation.

The Guaranteed Loan Policy for mink ranchers was renewed for 1971. Rising market prices at the December sales, the first for the 1971 crop, added a note of optimism.

The Division met the requests for service in all matters related to veterinary medicine and, where applicable, to human health. Of particular note were investigations into salmonellosis in the poultry industry and the identification of triaryl phosphate poisoning in cattle that originated with a high temperature lubricant from a natural gas pumping station.

The co-operation and assistance of other Division, Departments, and Agencies are gratefully acknowledged.

FIELD SERVICES

Extension and field activities included administration of official legislative programs such as livestock inspection, communicable disease control, herd health programs and livestock medicine control. It involved laboratory as well as field services staff. Specific disease outbreaks and pollution problems involving livestock were investigated. Additional responsibilities included lectures at the universities, vocational colleges and Canada Manpower courses, as well as instructional short courses on animal health problems for farmers organized by the Extension Division.

SUMMARY OF ACTIVITIES

Field Investigations		Inspections	
Cattle	35	Markets	177
Swine	6	Stockyards	309
Sheep	4	Livestock Medicine	348
Horses	1	Slaughterhouses	110
Poultry	13	S.H.H.P.	205
Fur	151	R.O.P.	104
Others	3	Swine Sale	95
Total	213	Pastures	16
		Bull Studs	3
		Total	1,367

Meetings and Short Courses		Lectures	
Domestic Animals	63	University	29
Poultry	64	Vocational Colleges	22
Professional	6	Canada Manpower (days)	13
Community Pastures	12	Others	5
Fur Breeders	20	Total	69
Regional	9		
Clinic	7		
Others	17		
Total	138		

COMMUNICABLE DISEASE CONTROL

The voluntary vaccination of heifer calves under the brucellosis program continued to decline, with 41,768 calves vaccinated.

Infectious bovine rhinotracheitis caused widespread outbreaks of abortion in cattle herds throughout the province. Since this disease appears in many forms, it necessitated numerous farm meetings to describe the disease more fully to farmers and ranchers. Equine infectious anemia and encephalomyelitis were reported along with several cases of foot rot in sheep.

Cattle and sheep were inspected on entry to 19 community pastures totalling 37,163 animals. Deaths and sickness in 71 cattle and 8 sheep were investigated by veterinary practitioners.

The rigid inspection of sheep entering the pastures greatly reduced the incidence of foot rot from the level of the previous year.

The veterinary clinic at Fairview operated successfully with maintenance grants from the department. The purchase of essential equipment for the clinic was authorized by the government in the latter part of the year.

SWINE HERD HEALTH PROGRAM

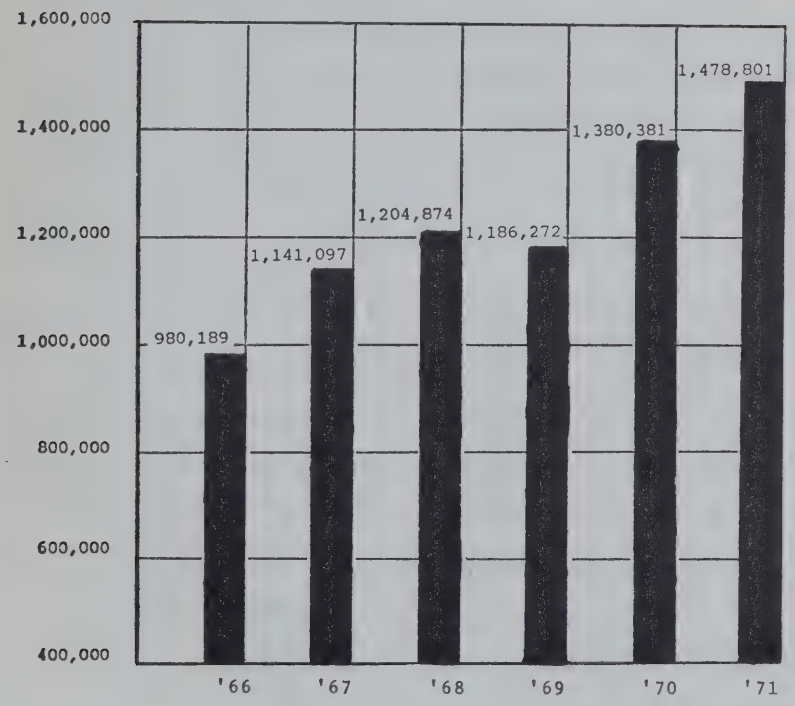
An increased enrollment was again achieved during 1971 and regular quarterly inspections were maintained on all enrolled herds. Interest in the program was demonstrated by many larger commercial units, and of those participating, one contained nearly 5,000 pigs. One herd attained certified status during the year. A project was set up in conjunction with a new unit stocked with a major importation of pigs from England.

Summary of Activities of

Swine Herd Health Program during 1971:

Enrollment at January 1, 1971	52
Herd inspections	206
Necropsies performed	122
Specimens examined	808
Enrollment at year end	58

LIVESTOCK INSPECTED AT CLASS "D","E", AND "F" STOCKYARDS



LIVESTOCK INSPECTION

The accompanying graph illustrates the total volume of livestock inspected at Class "D", "E" and "F" stockyards from 1966 to 1971 inclusive. Of the 1,478,801 inspected in 1971, 24,838 were rejected as not suitable for unconditional sale. This required 4,968 man days of work by participating veterinarians.

Construction and sanitary inspections were supplied to 23 Class "C" and 145 Class "G" stockyards. The number of Class "G" stockyards operating has declined steadily from 1967 when 246 were under supervision.

R.O.P. (SWINE) HEALTH INSPECTION

One hundred and four farm visits were made to keep all herds participating in the R.O.P. program under semi-annual inspection. Market specimens were checked in the laboratory on completion of each group test and, if necessary, specimens were collected from the farm to confirm or refute suspicion of disease. One herd was thus cleared and allowed to station test pigs but two herds were rejected.

SWINE SALE INSPECTIONS

Veterinary inspection of all herds contributing to the major provincial swine sales continued with a total of 95 inspections being carried out. On three occasions, a health certificate was not issued because of clinical evidence of infectious disease.

CALGARY QUALITY MILK CONTROL PROGRAM

Regular committee meetings were attended and advice was given regarding mastitis prevention and control.

LIVESTOCK MEDICINE REGULATIONS

Licences were issued to four hundred and forty-three outlets, an increase of 10 over the previous year. Three hundred and forty-eight inspections of licenced outlets and 21 of premises of new applicants were made.

One outlet was reported for selling a restricted drug and was given a written warning and a wholesale company was

investigated for advertising. A number of complaints of a minor nature were investigated and corrected.

Licences to sell poultry disease vaccines were issued to 8 pharmacists, 7 hatcheries and 8 veterinarians.

Under the rabies control program, specimen containers and literature were supplied to control points to help insure that suspected animals were submitted for examination.

ABATTOIRS AND HUMANE SLAUGHTER

Ninety-nine licences were issued under the Humane Slaughter Regulations, 93 of these to abattoirs already licensed as locker plants or specialized processing plants. Three were issued to businesses operating an abattoir only and 3 to educational institutions offering instruction in slaughtering procedures. One hundred and seven abattoirs were inspected and one investigation was conducted regarding slaughter of rabbits.

A survey to determine the incidence of trichinosis in Alberta was completed in 1971. Eight hundred and thirty-one samples from 51 abattoirs representing 594 farms were collected and examined. All were negative.

EMERGENCY PLANNING OFFICER

Two annexes of the resources book were updated and emergency assignments of personnel reviewed.

Eight emergency government areas prepared agricultural annexes to their plans and ten more are being prepared.

Eleven departmental personnel and four part-time employees attended emergency planning courses at Arnprior.

Three departmental personnel participated in Exercise Barnex I at Camrose.

FUR FARMS BRANCH

Three hundred and thirty-five fur farm licences were issued, of which 101 were for mink, 229 for chinchilla and 5 for miscellaneous fur bearers. Twenty-nine mink farmers ceased operations during the year, largely due to the depressed pelt prices.

The guaranteed interim assistance loans policy for mink farmers was extended by O.C. 363/71 and many mink breeders were able to keep operating in anticipation of improved markets.

Dr. Rendle E. Bowness of Toronto was the featured speaker at fall meetings held in four mink farming areas. A two-week Canada Manpower Course was arranged for Lesser Slave Lake district mink farmers in February.

Three bulletins were published and numerous meetings of fur breeders attended including the annual meeting of the Canada Mink Breeders in Regina.

The rabbit processing plant in Calgary was still in financial difficulty and may close.

Promotion of chinchillas ceased to be a problem in Alberta.

SUMMARY OF STATISTICS

Year	Licenses Issued			Mink Pelts Produced	Mink Pelt Value
	Chinchilla	Misc.	Mink		
1970-71	229	5	101	135,023	1,409,595
1969-70	240	7	130	189,796	1,971,822
1968-69	257	5	155	170,540	2,478,213
1967-68	245	2	184	201,444	2,765,672

Early December sales indicated an increase of 15 to 25% in pelt prices and a trend toward a healthier industry.

LABORATORY SERVICES

Alberta's highly developed livestock industry requires an equally highly developed system of veterinary field and laboratory services to protect it from disease losses. The laboratories at Edmonton, Lethbridge, and Fairview provided specialized diagnostic services which cannot be given in the field. Veterinary practitioners use the laboratories to identify new diseases, assist in diagnosis of problem cases, or to confirm a tentative diagnosis. Stockmen, wildlife biologists and others use the services to establish a diagnosis.

A very careful examination of dead animals or birds is necessary to find the factors which caused death or disease. As research increases our knowledge of diseases, an increasing number of laboratory tests are sometimes required to make use of this new knowledge. In addition to the pathologist's examination, tests may include: bacteriology, virology, toxicology, tissue sections, and many others. Speed in completing these tests and reporting them to the veterinarian or owner is essential to prevent heavy losses by implementing the best treatment and control for the particular disease or diseases.

The Fairview Laboratory completed it's first full year of service. While well over 1,000 animals and birds were

examined, our facilities have a capacity for many more specimens and we anticipate more will be received as stockmen in the Peace River district become aware of the service available.

In addition to the work in the laboratory, staff visited many farms in response to requests from veterinarians or stockmen for this type of investigation of disease problems.

In addition to the responsibilities to agriculture, our Toxicology Section serviced the medical profession, health units, police departments, and other departments of government by carrying out chemical analyses related to the work of these agencies. Analyses involved mainly cases of suspected poisonings and non-medical drug use, but again included analysis of many game birds for mercury residues.

Laboratory Services administers the staff of the Shared Services Section which provides pickup and delivery, mail, duplicating services, etc. to all other laboratories in the Longman Building.

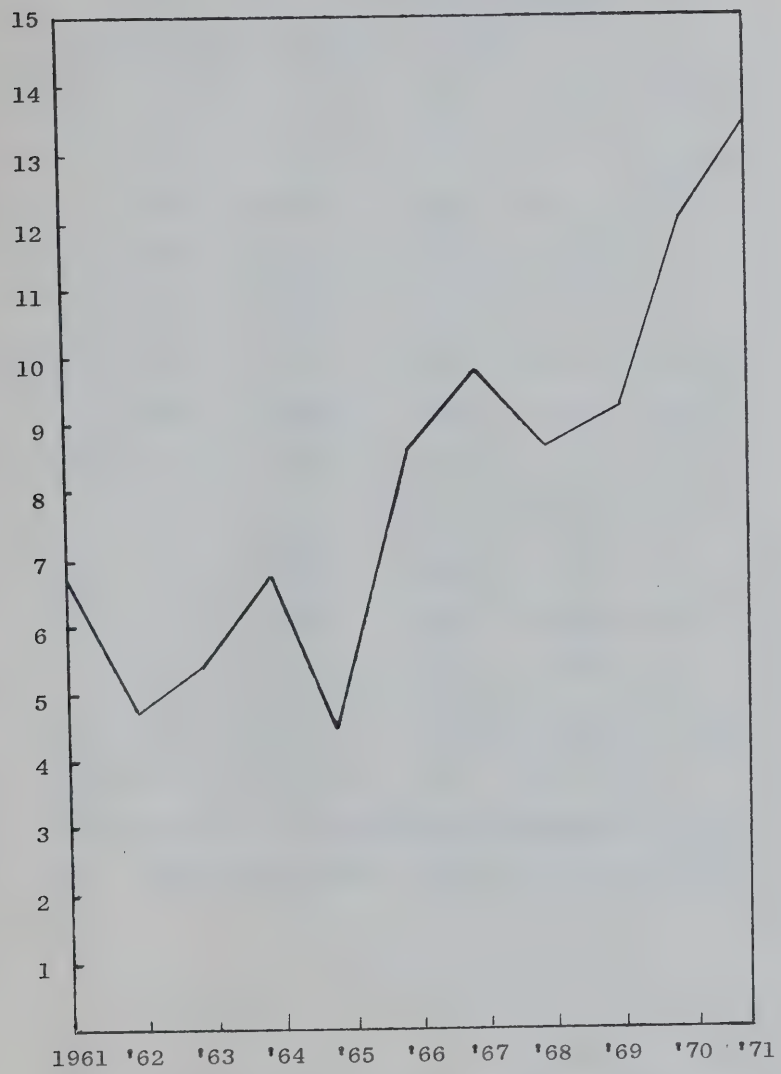
Dr. W. N. Harries studied pathology at the University of London and was awarded a Master's Degree in diagnostic pathology. Dr. R. G. Christian became a member of the American College of Veterinary Pathologists.

The table and figure below illustrates the continued increase in use of the services we provide. The greatest increase was at Lethbridge.

SPECIMENS EXAMINED (by laboratory sections)

	No. Specimens Examined		
EDMONTON	1969	1970	1971
Animal	10,747	13,430	13,872
Poultry	7,724	12,919	18,675
Microbiology	12,972	15,493	16,967
Histopathology	15,527	18,058	21,973
Parasitology	879	1,527	1,682
Toxicology	13,410	14,033	12,042
LETHBRIDGE			
Animal	2,641	2,629	3,837
Poultry	1,199	2,314	2,054
Microbiology	2,449	2,823	3,104
Histopathology	2,596	3,626	3,511
FAIRVIEW			
Animal	0	7	1,877
Poultry	0	1	250
Microbiology	0	7	1,725
Histopathology	0	57	2,336
Totals	70,144	86,924	103,905

Submissions in thousands



"Submission" refers to a shipment received from an individual farm or case. Each submission may be composed of several "specimens" i.e., tissues, blood, or milk samples, etc.

Following is a list of species and numbers of specimens of each received and examined.

	Edmonton	Lethbridge	Fairview
Cattle.....	5,903	2,491	620
Swine.....	4,203	577	344
Sheep.....	390	180	267
Horse.....	272	83	75
Dog.....	1,125	217	127
Cat.....	310	101	28
Fur.....	223	30	4
Wildlife.....	578	158	55
Chickens.....	5,855	1,712	220
Turkeys.....	1,513	279	22
Bloods.....avian	10,573	16	
animal	169	566	
Milk.....	2,575	196	360
Others.....avian	734	145	5
animal	799	867	2
Total.....	35,222	7,618	2,129

GRAND TOTAL.....44,969

(Figures do not include toxicology section or specimens referred from one laboratory section to another)

TOXICOLOGY SECTION

The laboratory performs chemical analyses for the Provincial Veterinary Services, as well as for various health and government agencies of the province, including police forces, and on a limited scale for individuals and industries.

The total number of specimens processed during the year 1971 were 12,158. Two thousand and seventy-five samples of human tissues and body fluids were analyzed for hospitals, coroners and police forces (from live patients and post mortem cases). Also analyzed were 1,348 animal tissues and body fluids. The presence of toxic substances were investigated in 129 feed samples.

Water analyses were performed on 4,937 samples to determine suitability for human consumption, irrigation and industrial purposes for health units, veterinary services and individuals. Of these, 466 were analyzed for trace components.

Six hundred and forty-two specimens and exhibits were tested for R.C.M.P. and local police forces. These were of a large variety and involved complex chemical and physico-chemical examinations. The head of the laboratory appeared at court hearings on 71 occasions.

PROMINENT DISEASES - Cattle

Disease	Edmonton	Lethbridge	Fairview
Abortions (all causes)	861	180	21
Blackleg	38	3	
Bloat	46	37	14
Coccidiosis	26	7	7
Colibacillosis	115	27	
Hemophilus Meningoencephalitis	30		
Inf. Bov. Rhinotracheitis	30	12	
Johne's Disease	2		
Lungworm Infection	10		4
Malignant Edema	36		2
Pneumonia (Infectious)	291	96	18
(Atypical Interstitial)	9	4	18
Poisoning	55	22	11
Polioencephalomalacia	30	11	
Virus Diarrhea	15	12	2
Vitamin A Deficiency	71	18	

Exceptionally high abortion rates occurred in some herds due to I.B.R. infection. Many meetings were addressed at which vaccination against this disease was recommended. There were reports of herds with many calves weak at birth or becoming weak soon after birth.

A questionnaire was circulated and farms were visited in an attempt to determine the extent and causes of calf losses. While we did find some problem herds the extent was not severe enough to affect the overall calf crop of the province. Calf scours, shipping fever, and other types of pneumonia continued as the major disease problems. Twenty-four cases of Hemophilus meningoencephalitis, by far the highest incidence of the disease seen in Alberta to date, were diagnosed in the first two weeks of December. White muscle disease continued as a problem and we do not yet know the full extent of its economic importance. Coccidiosis appears to be increasing in frequency, especially in feed lot calves.

Swine

Disease	Edmonton	Lethbridge	Fairview
Abortions (all causes)	38	11	
Anemia	5	18	
Atrophic Rhinitis	28	5	6
Colibacillosis	104	62	36
Edema Disease	11	1	1
Encephalitis	26	1	
Enteritis	147	5	21
Erysipelas	111	22	14
Gastro-Enteritis	3		
Infectious Serositis	4	1	

	Edmonton	Lethbridge	Fairview
Mulberry Heart Disease	28	5	1
Necrotic Enteritis	16	1	
Pneumonia	131	47	16
Vibrionic Dysentery	45	7	6

The major diseases causing death were erysipelas and colibacillosis, both of which are bacterial infections. Swine dysentery was also a disease of great economic importance although it does not cause as many deaths. Mulberry heart disease continued to be a significant factor. Gastric ulcers caused heavy losses in at least one herd. Poor nutrition and parasites were responsible for very poor production efficiency in many herds.

Poultry

Disease	Edmonton	Lethbridge	Fairview
Air Sac Infection	33	18	3
Arizona Paracolon	23	8	
Ascites & Edema	16	10	
Aspergillosis	22		1
Avian Encephalomyelitis	11		5
Capillaria worms	40	1	2
Coccidiosis	132	21	8
Coliform Septicemia	33	14	
Deficiencies	26	4	12

	Edmonton	Lethbridge	Fairview
Fowl Cholera	19	3	1
Leukosis - lymphoid	139	6	3
- Marek's	349	65	9
Omphalitis			11
Salmonellosis	30	2	
Tibial Chondrodystrophy . . .	23	3	

While the figures for Marek's disease are increased over last year, the vaccine introduced during the year appears to be quite effective, and should result in a decline in incidence of the industry's major disease problem.

Air Sac Infection in turkeys was less common but we saw infectious sinusitis in older birds for the first time in some years. Arizona paracolon and edema again caused significant losses. There were many cases of coccidiosis mainly affecting in pullet flocks. An encouraging note is seen in the reduction in coli septicemia or CRD diagnoses.

SPECIAL INVESTIGATIONS

Mercury Analysis

Increasing demand for reliable, highly sensitive analytical methods for the quantitative measurement of trace amounts of mercury in the environment has resulted in the development of a flameless atomic absorption photometer for mercury determination. The detection limit of this instrument, 0.2 nanagram mercury, is comparable with that of the best research instrument reported in the literature.

Marek's Disease Vaccine Trials

Marek's disease has caused losses in excess of 30% in some pullet flocks and has been the cause of most serious losses to the poultry industry. A trial of a recently released vaccine was undertaken jointly by the Veterinary Services Division, the Department of Animal Science of the University of Alberta and the Poultry Branch of the Animal Industry Division. All birds which died were examined especially for Marek's disease at the Veterinary Services Laboratory and over 500 sera were sent for further study to Connaught Medical Laboratories. The mortality from Marek's disease over a six month period was 0.89% and 0.67% in vaccinated groups and 5.1% in the unvaccinated controls.

Investigation Into A Suspected New Syndrome In Chicken Broilers

At the request of a feed company an investigation was undertaken to study an alleged new syndrome. Material from affected birds was given by mouth to healthy broiler chickens. A similar number of healthy chickens were kept as controls. Treated and untreated control birds increased in weight at similar satisfactory rates. There was no evidence of disease.

Investigation Into Excessive Culls In A Pullet Flock

The cause of excess cull birds in a growing pullet flock is being investigated. Unusual microscopic pathological changes were noted in the intestines. These changes may be permanent since they were present in affected birds kept in the laboratory for a four week period. The cause has not been found in spite of searches for pathogenic bacteria viruses or protozoa. When ground up intestines from infected birds were inoculated by mouth in chickens, their growth rate was depressed compared with uninoculated controls.

Weak Calf Syndrome

Questionnaires were sent to all veterinarians and livestock branch specialists. From the information in the returns we selected herds for further investigations. Twenty-three cattlemen were visited and interviewed. While a definite diagnosis could not be established in some cases, the herds were categorized into types of disease as shown below:

Scours	10
Selenium responsive	4
Other nutritional	3
Viral infection (pre-natal)	4
Genetic	2

Our work did not substantiate reports of unusually extensive and heavy calf losses.

Osteodystrophy in Lambs

Concentrate-fed lambs may die with a relatively unknown clinical syndrome as a result of very low serum calcium levels. Investigation reveals that early detection of imbalance can be carried out by measuring urine phosphorus. Affected lambs have poor growth and feed efficiency.

Hemophilus Meningoencephalitis in Cattle

A study of the biochemical characteristics of several isolates was carried out.

Copper Deficiency in Cattle

In co-operation with the Federal Research Stations at Beaverlodge and Prince George it was found that levels of copper in feed generally considered deficient are actually adequate for cattle.

White Muscle Disease

The geographical incidence of cases in both aborted calves and lambs and young calves and lambs was mapped and indicated widespread occurrence in Region Seven.

Coccidiosis in Feeder Lambs

A survey was carried out to determine incidence and significant levels of infestation. Amprolium will be tried next spring as a means of prevention.

Trichinosis

A survey to determine the incidence of trichinosis in Alberta swine, which began in 1970, was completed in 1971. Samples were obtained from 51 abattoirs scattered widely across the province. Eight hundred and thirty-one samples from 594 different farms were collected and submitted to the Veterinary Laboratory for examination. Samples were examined by a press technique and also by digestion. All samples were negative.

Salmonellosis

In co-operation with the Provincial Laboratory of Public Health, we planned and carried out testing programs for contamination and infection with these bacteria, which are important in both human and animal health.

Fetal Iodine Deficiency

Survey of bovine fetuses from a local packing plant for gross and microscopic evidence of goiter. Approximately 14% of fetuses examined were found to be affected.

Gastric Ulcers, Swine

Investigations were made into the nature and significance of gastric fundic hyperemia in swine suffering from a variety of disease conditions.

Neonatal Lung Pathology in the Ovine

The literature was surveyed for information on development, birth changes and diseases of the lung. Most data were derived from human sources and these were then applied to neonatal ovine lungs which had been collected during a mortality survey at an intensively reared sheep operation near Lethbridge.

Triaryl Phosphate Poisoning

A number of post mortem examinations were made on several field trips in an effort to diagnose this poisoning. Because of the lack of knowledge and description of the condition in cattle a dosage trial has been undertaken for the purpose of determining the neurotoxic dose and describing the neuropathological lesions as they occur in experimental as opposed to field cases of poisoned animals.

Spirochete Involvement In Swine Dysentery

An examination of the flora of the colon of pigs suffering from swine dysentery has revealed the same morphological types as those described in the English and Danish literature. These Spirochetes have been implicated in Swine Dysentery however their significance has yet to be determined.

PUBLICATIONS

(1) "A Modified Cold Vapor Atomic Absorption Method for the Determination of Mercury"
K. I. Strausz and J. E. Roff
Report of the Sixth Pesticide Residue Analysis Seminar (Western Canada) 1971.

(2) "Chlorine Gas Poisoning in Farm Livestock": Case Report and Review
D. W. MacDonald, M. A. Lamoureux, M. Van den Brink and G. R. Whenham.
Can. Vet. Jour. 12:2 February 1971.

(3) "Listeria Monocytogenes Isolations in Alberta 1951-1970"
D. W. MacDonald, G. S. Wilton, J. Howell and G. G. Klavano.
Accepted by Can. Vet. Jour. for publication.

(4) "Lead Poisoning in Cattle":
Brain Lesions and Hematologic Changes
R. G. Christian, and L. Tryphonas.
American Journal of Veterinary Research,
1971, 32: 203-216.

(5) "Accidental Intracarotid Artery Injection
of Promazine in the Horse"
R. G. Christian, L. L. Kramer, and
J. H. L. Mills.
Canadian Veterinary Journal (in press).

(6) "Tibial Dyschondroplasia in Broiler
Chickens in Western Canada"
C. Riddell, J. Howell and M. M. Kaye.
Avian Diseases, Vol. 15 (1971) 557-565.

CATTLE DISEASES

DISEASE	TOTAL	EDMONTON	LETHBRIDGE	FAIRVIEW
Abomasitis	8	7	1	-
Ulcerative	11	8	2	1
Abscess	24	14	4	6
B-Staph sp	2	-	-	2
B-Coryne sp	2	-	-	2
B-C-Pyogenes	1	-	-	1
Brain	3	2	-	1
Liver	9	5	1	3
Anemia	8	2	3	3
Hemolytic	1	-	-	1
Anomaly	12	7	1	4
Cardiac	2	-	1	1
Skeletal	12	-	2	10
Arthritis	7	-	2	5
Coryne	1	-	-	1
Degenerative	1	1	-	-
Fibrinous	2	1	1	-
P-Hemolytica	1	-	-	1
Strep	1	-	-	1
Suppurative	1	1	-	-
Bacillary hemoglobinuria	10	1	9	-
Blackleg	28	24	3	1
Bloat	103	46	38	19
Blood Test Negative	1	-	-	1
Bovine Virus Diarrhea	32	16	12	4
Calculi-Urinary	5	5	-	-
Cardiac Failure	19	6	9	4
Cellulitis	3	-	1	2
Cirrhosis	3	3	-	-
Clostridia inf-B-Cl-novyi	1	-	-	1
Coccidiosis	41	26	7	8
Colibacillosis	151	115	27	9
Colitis	3	1	2	-
Conjunctivitis	2	1	-	1
Cystitis	5	2	1	2
Def-Calcium	1	-	1	-
Magnesium	3	1	2	-
Malnutrition	12	4	3	5
Vit-A	90	71	18	1
Dehydration	3	-	-	3

CATTLE DISEASE (continued)

DISEASE	TOTAL	EDMONTON	LETHBRIDGE	FAIRVIEW
Dermatitis	8	-	6	2
Bact	2	-	1	1
Displaced Abomasum-right	2	1	1	-
Dystocia	9	3	-	6
Encephalitis	12	9	3	-
Bacterial	11	8	3	-
Mycotic	1	-	1	-
Viral	6	4	2	-
Endocarditis	6	2	4	-
Enteritis	67	62	2	3
Catarrhal	2	1	1	-
Chronic	2	-	1	1
E-Coli	90	82	-	8
Hemorrhagic	13	5	5	3
Necrotic	4	3	1	-
Enterotoxemia	4	2	-	2
Enterotoxemia Type C	1	1	-	-
Eosinophilic myositis	5	1	4	-
Fat Necrosis	1	1	-	-
Fibrosis	1	-	1	-
Fracture	5	1	4	-
Goitre	35	5	28	2
Granulation Tissue	2	1	1	-
Hematoma	1	-	-	1
Hemaglobinuria	1	-	-	1
Hemorrhage	24	14	10	-
Cerebral	1	-	-	1
Hepatitis	12	6	3	3
Hepatosis	3	3	-	-
Hydrocephalus	7	5	1	1
Hydrops amnii	1	-	-	1
Hyperkeratosis	3	2	1	-
Hyperplasia-Biliary	1	-	1	-
Hypoplasia-cerebellar	1	-	-	1
Impaction	5	4	-	1
Inf-Bov-Rhino	44	32	12	-

CATTLE DISEASES (continued)

DISEASE	TOTAL	EDMONTON	LETHBRIDGE	FAIRVIEW
Intestinal Perforation	2	1	-	1
Intestine Intussusception	1	-	-	1
Johne's Disease	2	2	-	-
Keratitis	4	3	-	1
Laryngitis	3	1	1	1
Necrotic	8	5	1	2
Lightning Stroke	1	-	1	-
Listeriosis	6	5	1	-
Leucoencephalomalacia	1	1	-	-
Malignant Catarrhal Fever	4	1	-	3
Malignant Edema	29	24	3	2
Mastitis	290	139	32	119
Meningitis	13	11	-	2
Bacterial	12	10	-	2
Meningoencephalitis	10	9	-	1
Metritis	11	6	-	5
Myiasis	1	-	-	1
Mycosis	3	2	-	1
Myocarditis	4	3	1	-
Myopathy	53	49	3	1
Nutritional	118	103	2	13
Myositis	5	3	2	-
Necrobacillosis	8	4	4	-
Necrosis of the Extremities	4	3	-	1
Neo-Natal Diarrhea	37	4	-	33
Nephritis	31	22	4	5
Nephrosis	6	5	-	1
Neoplasms (see table for details)	74	44	25	5
Parainfluenza	2	-	-	2
Pasteurellosis	61	59	2	-
Pediculosis	2	2	-	-
Pericarditis	7	3	2	2
Peritonitis	28	14	1	13

CATTLE DISEASES (continued)

DISEASE	TOTAL	EDMONTON	LETHBRIDGE	FAIRVIEW
Pleuritis	3	2	-	1
Polioencephalomalacia	41	30	11	-
Pneum-Atypical Interstitial	97	53	27	17
Bacterial	29	25	3	1
Broncho	74	63	-	11
Fibrinous	67	34	22	11
Granulomatous	12	11	1	-
Inhalation	6	3	-	3
Interstitial	38	34	3	1
Parasitic	8	7	1	-
Suppurative	9	4	2	3
Viral	11	5	3	3
Unclassified	34	-	-	34
Pneumothorax	1	-	-	1
Pulmonary Edema	16	5	7	4
Pulmonary Embolism	1	-	-	1
Pyelonephritis	6	2	4	-
Pyometra	1	1	-	-
Parasites (see table for details)	54	15	6	33
Rumen Overload	11	5	2	4
Rumenitis	7	4	2	1
Mycotic	4	1	1	2
Rupture-Aortic	1	-	1	-
Bladder	4	-	3	1
Esophagus	1	-	1	-
Stomach	1	1	-	-
Uterus	1	-	-	1
Salmonellosis	13	7	6	-
Septicemia	46	19	26	1
B-Strep A. hemo	1	-	-	1
P-Hemolytica	1	-	-	1
Shock	2	1	-	1
Sinusitis	2	1	-	1
Starvation	5	5	-	-
Steatitis	1	-	1	-
Stillborn	18	-	16	2
Streptococcosis	4	4	-	-
Suitable-Animals	2	1	1	-
Suitable for Human Use	27	26	-	1

CATTLE DISEASES (continued)

DISEASE	TOTAL	EDMONTON	LETHBRIDGE	FAIRVIEW
Synovitis	1	1	-	-
Testicular hyoplasia	1	-	-	1
Thrombo-Embolic-Meningoenc	10	6	4	-
Torsion-Abomasum	2	1	-	1
Intestinal	4	3	1	-
Mesenteric	5	1	2	2
Stomach	2	1	1	-
Toxicity (see table for details)	84	57	17	10
Tracheitis	3	3	-	-
Trauma	20	8	5	7
Traumatic Reticulitis	8	3	1	4
Umbilical Infection	30	19	1	10
Unsuitable-Animals	16	2	9	5
Unsuitable for Human Use	23	20	3	-
Uremia	1	1	-	-
Urethral Obstruction	2	-	1	1
Vibriosis (see table for details)	20	11	5	4
Winter Dysentery	1	-	-	1
Lab Exams Neg	398	250	126	22
No Diagnosis	410	340	52	18
Specimen Unsuitable	41	25	6	10
TOTALS	3601	2287	717	597

SWINE DISEASES

DISEASE	TOTAL	EDMONTON	LETHBRIDGE	FAIRVIEW
Abscess	13	7	4	2
Brain	3	-	3	-
Cervical	2	1	-	1
Anemia	35	11	18	6
Anomaly	1	-	-	1
Cardiac	1	-	-	1
Arthritis	9	2	3	4
Bacterial	2	2	-	-
Degenerative	3	3	-	-
Suppurative	3	2	1	-
Staph	3	1	1	1
Strep	3	1	-	2
Atrophic Rhinitis	39	28	5	6
Asphyxiation	4	1	-	3
Anaphylaxis	1	1	-	-
Atelectasis	1	1	-	-
Calculi-Urinary	1	1	-	-
Cannibalism	1	-	1	-
Cardiac Failure	3	-	2	1
Clostridia Inf	1	-	-	1
Colibacillosis	170	106	63	1
Colitis	5	5	-	-
Cystitis	2	1	1	-
Decomposed	1	1	-	-
Def-Malnutrition	9	5	-	4
Vit-A	2	1	-	1
Dehydration	1	1	-	-
Dermatitis	5	2	3	-
Dystocia	3	1	1	1
Edema Disease	13	11	1	1
Electrocution	1	-	1	-
Emaciation	2	-	2	-
Encephalitis	5	-	5	-
Bacterial	2	1	1	-
Viral	28	25	3	-
Endocarditis	9	1	3	5

SWINE DISEASES (continued)

DISEASE	TOTAL	EDMONTON	LETHBRIDGE	FAIRVIEW
Endometritis	1	-	-	1
Enteritis	74	52	3	19
Bacterial	2	1	1	-
Chronic	3	-	1	2
E-Coli	104	71	-	33
Hemorrhagic	2	1	-	1
Necrotic	21	16	1	4
Nutritional	17	17	-	-
Fatty Metamorphosis	1	1	-	-
Fibrosis	1	1	-	-
Fracture	2	-	2	-
Gastritis	2	1	-	1
Gastroenteritis	2	2	-	-
Goitre	2	-	1	1
Greasy Pig Disease	28	13	13	2
Heat Prostration	2	-	2	-
Hemorrhage	10	8	2	-
Hernia	1	1	-	-
Abdominal	3	1	1	1
Diaphragmatic	1	1	-	-
Scrotal	1	1	-	-
Hepatic necrosis	1	-	-	1
Hepatitis	1	-	-	1
Necrotic	1	-	-	1
Hepatosis	7	6	1	-
Hyperkeratosis	1	-	-	1
Hyperemia	1	1	-	-
Hypoglycemia	1	1	-	-
Impaction	1	1	-	-
Inclusion Body Rhinitis	2	-	-	2
Inflammation	3	3	-	-
Intestinal Perforation	1	-	-	1
Malignant Edema	2	2	-	-
Mange Sarcoptic	17	6	4	7
Mastitis	1	1	-	-
Coliform	3	-	3	-
Staphylococcus	1	-	1	-
Streptococcal	1	1	-	-
Meningitis	6	3	1	2
Bacterial	6	4	2	-

SWINE DISEASES (continued)

DISEASE	TOTAL	EDMONTON	LETHBRIDGE	FAIRVIEW
Meningoencephalitis	5	5	-	-
Metritis	8	5	2	1
Mismanagement	3	-	3	-
Mulberry Heart Disease	34	28	5	1
Myocarditis	3	3	-	-
Myoclonia Congenita	2	-	2	-
Myopathy	10	9	-	1
Nutritional	4	4	-	-
Neo-Natal Diarrhea	5	2	-	3
Neoplasms (see table for details)	5	4	1	-
Nephritis	6	4	2	-
Nephrosis	1	-	1	-
Osteodystrophy	12	4	3	5
Osteomyelitis	1	1	-	-
Osteoporosis	2	2	-	-
Otitis Media	1	-	1	-
Parasites (see table for details)				
Pasteurellosis	35	35	-	-
Pericarditis	4	3	-	1
Peritonitis	7	2	3	2
Pleuritis-Suppurative	1	-	-	1
Pityriasis Rosea	3	3	-	-
Pneumonia	74	34	39	1
Pneum-Bacterial	20	20	-	-
Broncho	39	30	-	9
Enzootic	25	16	4	5
Fibrinous	3	2	1	-
Inhalation	1	-	1	-
Interstitial	6	6	-	-
Parasitic	2	-	1	1
Suppurative	1	-	-	1
Viral	2	2	-	-
Polioencephalomalacia	1	1	-	-
Polyserositis	10	7	2	1
Poisoning (see table for details)	18	14	2	2
Porcine Stress Syndrome	1	-	-	1

SWINE DISEASES (continued)

DISEASE	TOTAL	EDMONTON	LETHBRIDGE	FAIRVIEW
Prolapse	1	-	1	-
Pulmonary Edema	2	2	-	-
Rhinitis	6	4	2	-
Rickets	5	2	1	2
Rupture	3	-	3	-
Stomach	1	-	1	-
Uterus	1	-	-	1
Salmonellosis	8	6	1	1
Satisfactory	5	2	1	2
Septicemia	33	19	8	6
Shock	1	1	-	-
Specimen Unsuitable	7	4	-	3
Spraddle Leg	1	1	-	-
Staphylococcosis	1	1	-	-
Starvation	1	1	-	-
Streptococcosis	4	-	4	-
Suitable for Human Use	13	13	-	-
Swine Dysentery	82	46	30	6
Torsion-Intestinal	5	4	-	1
Mesenteric	13	1	12	-
Transmissible Gastroenteritis	1	1	-	-
Trauma	16	6	6	4
Tuberculosis	1	1	-	-
Ulcer	2	1	1	-
Gastric	12	-	11	1
Umbilical Infection	4	4	-	-
Unsatisfactory	2	2	-	-
Unsuitable for Human Use	10	7	3	-
Vaginitis	1	1	-	-
Vegetative Endocarditis	2	1	-	1
Lab Exams Neg	61	38	17	6
No Diagnosis	140	110	15	15
No Visible Lesions	6	3	3	-
TOTALS	1532	968	354	210

OVINE DISEASES

DISEASE	TOTAL	EDMONTON	FAIRVIEW	LETHBRIDGE
Abomasitis	3	1	1	1
Abortion-bact	1	-	1	-
brucella	1	-	1	-
corynebacterium	1	-	-	1
idiopathic	5	-	2	3
other	3	-	1	2
vibrio	12	-	2	10
Abscess	11	6	2	3
liver	2	-	2	-
Anaphylaxis	2	1	1	-
Anemia	2	1	1	-
Anomaly	1	-	1	-
skeletal	2	-	2	-
Arthritis	2	-	2	-
Asphyxiation	1	-	1	-
Bloat	10	-	4	6
Brucellosis	1	-	1	-
Cardiac Failure	2	1	-	1
Coccidiosis-intestinal	4	4	-	-
Colibacillosis	16	8	-	8
Conjunctivitis	2	-	2	-
Contagious Ecthyma	6	1	5	-
Decomposed	1	-	-	1
Def-malnutrition	7	-	7	-
vit A	2	-	1	1
Dehydration	1	-	1	-
Dystocia	2	1	1	-
Edema	1	-	-	1
Emaciation	1	-	-	1
Encephalitis	2	2	-	-
bact	4	4	-	-
Encephalomyelitis	2	2	-	-
Encephalomalacia	3	1	-	2
Enteritis	12	9	1	2
bact	3	1	-	2
E-coli	9	7	2	-
hemorrhagic	2	2	-	-
Entertoxemia Type D	4	1	3	-

OVINE DISEASE (Continued)

DISEASE	TOTAL	EDMONTON	FAIRVIEW	LETHBRIDGE
Experimental	1	-	1	-
Fracture	1	-	1	-
Gastric Ulcer	2	1	1	-
Goitre.	2	1	-	1
Gunshot	3	1	-	2
Hemorrhage	2	-	-	2
Hernia-Diaphragmatic	1	1	-	-
Hepatitis	3	3	-	-
Hepatosis	2	2	-	-
Impaction	2	1	-	1
Leukoencephalomalacia	1	-	-	1
Listeriosis	9	6	3	-
Malignant Edema	2	2	-	-
Mastitis	5	1	2	2
staphylococcal	1	-	1	-
Meningitis	5	2	2	1
bacterial	4	1	2	1
Meningoencephalitis	2	2	-	-
Metritis	3	1	-	2
Myopathy	2	2	-	-
Myopathy Nutritional	7	3	3	1
Mummified Fetus	2	-	-	2
Neo-Natal Diarrhea	3	-	3	-
Nephritis	2	1	-	1
Nephrosclerosis	1	-	1	-
Obstruct-intestinal	1	-	1	-
Omphalitis	2	-	2	-
Omphalophlebitis	1	1	-	-
Orchitis	1	-	-	1
Osteodystrophy	4	-	3	1
Osteoporosis	2	-	1	1
Pancreatitis	1	-	1	-
Pasteurellosis	18	18	-	-

OVINE DISEASES (Continued)

DISEASE	TOTAL	EDMONTON	FAIRVIEW	LETHBRIDGE
Pericarditis	1	-	-	1
Peritonitis	2	-	2	-
Photosensitization	1	-	-	1
Pleuritis	3	-	2	1
Pneumonia	15	-	2	13
bact	1	-	-	1
broncho	11	-	10	1
inhalation	2	-	1	1
Polioencephalomalacia	7	3	2	2
Pregnancy Toxemia	2	2	-	-
Prolapse-vagina	2	-	2	-
Pseudomoniasis	1	1	-	-
Pyelonephritis	2	-	-	2
Rabies Negative	1	1	-	-
Rickets	4	2	2	-
Rumen Dysfunction	2	2	-	-
Rumen Overload	5	2	3	-
Rumen Stasis	1	1	-	-
Rumenitis	3	-	3	-
Rupture-stomach	3	1	1	1
Salmonellosis	2	-	-	2
Satisfactory	1	-	-	1
Septicemia	13	8	3	2
Specimen Unsuitable	1	-	1	-
Starvation	3	3	-	-
Staphylococcosis	1	1	-	-
Stress	2	2	-	-
Tetanus	1	1	-	-
Traumatic Gastritis	12	5	6	1
Torsion-mesenteric	2	2	-	-
Toxemia	1	1	-	-
Umbilical Infection	2	2	-	-
Urethral Obstruction	2	-	1	1
Urinary Calculi	3	1	1	1

OVINE DISEASES (Continued)

DISEASE	TOTAL	EDMONTON	FAIRVIEW	LETHBRIDGE
Vegetative Endocarditis	1	-	1	-
Lab Exams Neg	16	8	7	1
No Diagnosis	29	15	7	7
No Visible Lesions	5	2	2	1
No Test	1	1	-	-
TOTALS	411	170	135	106

EQUINE DISEASES

DISEASE	TOTAL	EDMONTON	FAIRVIEW	LETHBRIDGE
Abortion-bact	1	-	-	1
idiopathic	3	-	-	3
Abscess	5	4	-	1
Actinobacillosis	1	-	-	1
Anemia-Equine Infectious	2	1	1	-
Aneurysm	1	1	-	-
Arthritis	3	2	1	-
Cardiac Failure	1	-	-	1
Colibacillosis	2	-	-	2
Colitis	2	1	-	1
Colitis X	2	-	-	2
Conjunctivitis	1	-	1	-
Cyst-epidermoid	1	1	-	-
Def-malnutrition	1	-	1	-
Dermatitis-bact	1	-	-	1
Dermatomycosis	2	1	-	1
Encephalitis	1	-	-	1
bact	1	-	1	-
Encephalomalacia	1	1	-	-
Enteritis	2	2	-	-
chronic	1	-	-	1
E-coli	1	-	1	-
Fatty Metamorphosis	1	1	-	-
Fracture	1	-	-	1
Goitre	2	-	1	1
Granulation Tissue	1	-	1	-
Hemorrhage	2	1	-	1
Hepatitis	1	1	-	-
Inflammation	13	12	-	1
Intestinal Perforation	1	-	-	1
Intussusception	1	1	-	-
Keratitis	1	1	-	-
Laminitis	1	1	-	-
Myco-Trichophyton mentagrophy	2	2	-	-

EQUINE DISEASES (Continued)

DISEASE	TOTAL	EDMONTON	FAIRVIEW	LETHBRIDGE
Myocarditis	1	1	-	-
Omphalitis	1	-	1	-
Osteomyelitis	1	-	-	1
Paralytic Ileus	1	-	1	-
Peritonitis	2	1	1	-
Pleuritis	1	1	-	-
Pneumonia	2	-	2	-
bact	1	1	-	-
broncho	1	1	-	-
fibrinous	1	1	-	-
inhalation	1	1	-	-
interstitial	1	1	-	-
Septicemia	3	2	-	1
Shigellosis	2	2	-	-
Specimen Unsuitable	5	4	1	-
Stillborn	1	-	-	1
Strangles	1	1	-	-
Strongyloidosis	3	3	-	-
Torsion-intestinal	2	-	2	-
mesenteric	1	-	-	1
Trauma	2	-	2	-
Typhlitis	1	-	-	1
Vaginitis	1	1	-	-
Western Equine Encephalitis	2	2	-	-
Lab Exams Neg	46	28	2	16
No Diagnosis	25	19	4	2
No Test	9	2	-	7
No Visible Lesions	1	1	-	-
TOTALS	182	107	24	51

CANINE and FELINE DISEASES
(Fairview & Lethbridge included)

DISEASES	CANINE	FELINE
Abortion-idiopathic	-	1
Abscess	2	2
Amyloidosis	1	-
Anal Gland Infection	1	-
Anaphylaxis	2	2
Anemia	2	4
infectious	-	1
Anomaly	2	-
Calcinosis circumscripta	3	-
Cardiac Failure	15	4
Cellulitis	2	-
Cirrhosis	1	-
Coccidiosis-intestinal	2	-
Colibacillosis	3	-
Colitis	1	1
Conjuctivitis	3	3
Congenital Defect	6	2
Cyst	4	-
epidermoid	12	-
sebaceous	1	-
Cystitis	4	11
Decomposed	5	-
Degeneration	2	-
Dermatitis	14	2
bacterial	5	-
Dermatomycosis	-	1
Diabetes	3	1
Edema	1	-
Emaciation	1	-
Encephalitis	2	-
strep	1	-
viral	-	1
Encephalomalacia	2	-
Endocardiosis	2	-
Endocarditis	1	-

CANINE and FELINE DISEASES (Continued)

DISEASES	CANINE	FELINE
Enteritis	9	4
E-coli	2	-
hemorrhagic	-	2
Fatty Metamorphosis	1	-
For Culture	4	2
For Hematology	6	-
For Identification	1	-
Fracture	1	1
Gingivitis	-	2
Glossitis	2	-
Granulation Tissue	4	1
Gunshot Wound	3	-
Heat Prostration	1	-
Hemorrhage	16	7
Hepatic necrosis	1	1
Hepatitis Infectious Canine	18	-
toxic	2	1
unknown	2	-
viral	3	-
Hepatosis	-	1
Hernia-Diaphragmatic	3	4
Hip-Dysplasia	1	-
Hyperkeratosis	-	1
Hyperplasia	5	-
endometrial	-	1
Hypothydroidism	1	-
Icterus	1	1
Impaction-bowel	-	1
Infectious Feline Peritonitis	-	1
Inflammation	17	4
Intervertebral Disc Hernia	1	-
Keratitis	3	-
Mange-demodectic	2	-
Mastitis-streptococcal	1	-
Meningitis	1	1

CANINE and FELINE DISEASES (Continued)

DISEASES	CANINE	FELINE
Meningoencephalitis	3	1
Metritis	5	1
Myco-Alternaria sp	1	-
Microsporum canis	2	-
Rhizopus sp	1	-
sp	1	-
Trichophyton mentagrophyt	1	1
Yeast	2	-
Mycosis	14	-
Myocarditis	1	-
Necrosis	-	1
Nephritis	17	8
Nephrosclerosis	1	1
Nephrosis	5	7
Obstruct-intestinal	3	-
Osteodystrophy	1	-
Otitis	44	2
externa	41	3
media	1	-
Pancreatic Hypoplasia	1	-
Pancreatitis	14	2
Panleukopenia	-	60
Panophthalmitis	-	1
Paralysis	-	1
Pericarditis	1	-
Peritonitis	7	5
Pleuritis	-	1
Pneumonia	7	2
bacterial	1	2
broncho	2	1
granulomatous	1	-
inhalation	1	2
viral	1	1
Prostatitis	1	-
Pulmonary Edema	1	-
Pyelonephritis	1	1
Pyometra	1	1
Rabies Negative	6	3

CANINE and FELINE DISEASES (Continued)

DISEASES	CANINE	FELINE
Rhinitis	3	2
Ringworm	7	3
Rupture-bladder	-	1
liver	3	1
stomach	1	1
Salmonellosis	-	1
Septicemia	8	2
Shock	1	1
Sinusitis	1	-
Specimen Unsuitable	6	2
Staphylococcosis	2	-
Streptococcosis	1	-
Thrombus	2	-
Torsion-intestinal	1	-
mesenteric	2	-
stomach	2	-
Trauma-hemorrhagic	1	-
Tympanites	-	1
Ulcer-gastric	1	-
Uremia	2	2
Urinary Calculi	12	1
Vaginitis	1	-
Virus-unclassified	1	-
Lab Exams Neg	121	44
No Diagnosis	68	36
No Test	1	-
No Visible Lesions	7	2
TOTALS	663	280

FUR-BEARING ANIMALS
(Fairview & Lethbridge included)

DISEASE	CHINCHILLA	MINK
Abscess	2	-
Aleutian Disease	-	12
Anomaly	1	-
Ascites	1	-
Cardiac Failure	1	-
Colibacillosis	1	-
Colitis	1	-
Cystitis	-	1
Distemper	-	2
Dystocia	1	-
Enteritis	6	-
Gastritis	1	-
Gastro Enteritis	1	1
Giardiasis	10	-
Gingivitis	1	-
Hydrothorax	1	-
Impaction	6	-
Keratitis	1	-
Listeriosis	2	-
Malocclusion	3	-
Metritis	6	-
Mismanagement	1	-
Necrobacillosis	-	1
Nephritis	2	-
Nephrosis	2	-
Nursing Sickness	-	2
Pasteurellosis	-	3
Pneumonia	9	2
Proteus infection	2	-
Pseudomonas infection	14	1
Pseudotuberculosis	2	-

FUR-BEARING ANIMALS (Continued)

DISEASE	CHINCHILLA	MINK
Rupture-stomach	1	-
Salmonellosis	-	1
Septicemia	1	2
Starvation	1	-
Staphylococcosis	2	-
Streptococcosis	2	-
Toxemia	1	-
Uremia	1	-
Urinary Calculi	-	5
Lab Exams Neg	3	3
Miscellaneous	4	-
No Diagnosis	15	1
Specimen Unsuitable	1	-
TOTALS	107	37

LABORATORY ANIMALS
(Fairview & Lethbridge included)

DISEASE	GERBIL	GUINEA PIG	HAMSTER	MOUSE	RABBIT	RAT
Abscess		1				
Anemia		1				
Anoxia				1		
Asphyxiation						1
Coccidiosis-intestinal					1	
Colibacillosis	2	1		1		
Colitis					1	
Congenital Defect				1		
Cystitis					1	
Def-malnutrition		1				
vit C		2				
Dermatitis					1	
Enteritis	6	6	3	4	7	
E-coli			2			
hemorrhagic		1				
nutritional		1				
ulcerative						1
Encephalit-bact				1		
Fracture		2				
Hernia			2			
Hemorrhage		1		1	1	1
Hepatitis					1	
Impact-bowel			1			
Mange-sarcoptic				1		
Metritis		2			1	
Myiasis		1				
Pasteurellosis		1	1	1	1	5
Peritonitis	1					
Pneumonia	2	4		1	3	
bacterial				1		
broncho		2				3
parasitic					1	
Pregnancy					2	
Rabies Negative				2		
Septicemia	1	1	1		1	

LABORATORY ANIMALS (Continued)

DISEASE	GERBIL	GUINEA PIG	HAMSTER	MOUSE	RABBIT	RAT
Specimen Unsuitable			1	1		
Torsion-intestinal			2			
Toxemia					1	
Trauma					2	
Unsuitable for Human Use					1	
Uremia						1
Lab Exams Neg	3	1		1	2	2
No Diagnosis	1	5	1	3	8	
No Test					2	
TOTALS	16	34	14	20	38	14

WILDLIFE DISEASES
(Fairview & Lethbridge included)

DIAGNOSIS	TOTALS
Abex	
Pasteurellosis	1
Pneum-bacterial	1
Antelope	
Emaciation	1
Decomposed	1
No Diagnosis	3
Trauma	6
Badger	
Pneum-broncho	1
Bat	
Rabies Negative	63
Bear	
Encephalitis	1
Lab Exams Neg	3
Beaver	
Tularemia	1
Biesa Oryx	
Trauma	1
Bighorn Sheep	
Contagious Ecthyma	1
Lab Exams Neg	2
Pneumonia	1
Pneum-parasitic	2
Salmonellosis	1
Buffalo	
Arthritis	1
No Diagnosis	1
Starvation	1
Torsion-intestinal	1
Camel	
Lab Exams Neg	2
Caribou	
Colibacillosis	1
Coatimundi	
Panleukopenia	1
Coyote	
Distemper	2
Enterit-hemorrhagic	1
Experimental	1
Lab Exams Neg	8
Mange	2
Starvation	2
Trauma	8
Dahl Sheep	
Coccidiosis-intestinal	1
Colibacillosis	1
Myopathy	1
No Diagnosis	1
Septicemia	1

WILDLIFE DISEASES (Continued)

DIAGNOSIS	TOTALS
Lynx	
No Diagnosis	2
Monkey	
Enterit-hemorrhagic	1
Heat Prostration	1
Hemorrhage	1
Hyperthermia	3
Lab Exams Neg	3
Meningitis-bacterial	1
No Diagnosis	1
Trauma	2
Moose	
Catarract	1
Def-malnutrition	1
Enterit-E-Coli	2
Foot Rot	2
For Identification	1
Lab Exams Neg	4
Malignant Edema	1
No Diagnosis	1
Panophthalmitis	1
Satisfactory	4
Suitable for Human Use	21
Urinary Calculi	2
Mountain Goat	
Lab Exams Neg	1
Mule Deer	
Abscess-liver	1
Arthrit-suppurative	1
Pika	
Hemorrhage	1
Lab Exams Neg	1
No Diagnosis	1
Septicemia	1
Racoon	
No Diagnosis	2
Reindeer	
Pneum-parasitic	1
Rocky Mountain Goat	
Enterit-E-Coli	1
Pasteurellosis	1
Shrew	
Rabies Negative	1
Skunk	
Lab Exams Neg	7
Rabies Negative	12
Rabies Positive	1
Snake	
Colibacillosis	1
Def-malnutrition	1
Enterit-ulcerative	1
Lab Exams Neg	8
Rabies Negative	1
Salmonellosis	2
Septicemia	1

WILDLIFE DISEASES (Continued)

DIAGNOSIS	TOTALS
Deer	
Abscess-brain	1
Emaciation	1
Enterit-hemorrhagic	1
Lab Exams Neg	1
Myopathy	1
No Diagnosis	1
Peritonitis	1
Rabies Negative	1
Suitable for Human Use	1
Trauma	1
Elephant	
Inflammation	1
Elk	
Fatty Metamorphosis	1
Lab Exams Neg	1
Myopathy	1
Specimen Unsuitable	2
Suitable for Human Use	1
Fish	
Encephalomalacia	1
Lab Exams Neg	2
No Test	1
Pseudomoniasis	1
Suitable for Human Use	3
Fox	
Lab Exams Neg	1
Gopher	
Rabies Negative	2
Hippopotamus	
Lab Exams Neg	4
Impaction	2
Starvation	1
Ulcer-abomasal	1
Iguana Lizard	
Enterit-E-Coli	1
Pseudomoniasis	1
Jack Rabbit	
Coccidiosis-intestinal	1
Emaciation	1
Hepatitis	3
Lab Exams Neg	3
Metritis	1
No Diagnosis	1
Pasteurellosis	1
Pneumonia	2
Pneum-parasitic	1
Trauma	1
Lemming	
Necrosis	1
No Diagnosis	4
Pseudomoniasis	1
Septicemia	1

WILDLIFE DISEASES (Continued)

DIAGNOSIS	TOTALS
Squirrel	
Lab Exams Neg	1
No Diagnosis	1
Pneumonia	1
Rabies Negative	3
Wapiti	
Arthritis	1
Starvation	1
Wild Rabbit	
Bronchitis	1
Coccidiosis-hepatic	1
Colibacillosis	1
Colitis	1
Enteritis	3
Enterit-chronic	1
Gastric Ulcer	1
Impaction	1
Nephritis	1
No Diagnosis	4
Pasteurellosis	2
Pneumonia	2
Pneum-interstitial	1
Typhlitis	1
Wolf	
Lab Exams Neg	2
Rabies Negative	1
TOTAL	323

FETUS EXAMINATIONS

	Bovine	Porcine	Ovine	Equine	TOTALS
Brucella	1	0	0	0	1
Coliform	4	0	0	0	4
Corynebacterium	33	1	1	0	35
Erysipelas	0	4	0	0	4
Listeria	7	0	0	0	7
Pasteurella	5	0	0	0	5
Pseudomonas	3	0	0	0	3
Staph & Strep	24	1	0	1	26
Vibrio	11	0	2	0	13
B.V.D.	11	0	0	0	11
E.V.R.	0	0	0	4	4
I.B.R.	245	0	0	0	245
S.M.E.D.I.	0	4	0	0	4
Mycosis	31	0	0	0	31
Myopathy Nutritional	2	0	1	0	3
Malnutrition	5	0	4	0	9
Hydrocephalus	6	0	0	0	6
Congenital Defect	50	2	2	0	54
Mummified	19	0	0	0	19
Dystocia	11	0	2	0	13
No Diagnosis	543	48	49	12	643
Other *	4	0	0	1	5
TOTALS	1006	60	61	18	1145

* Bacteria - 3, Toxic - 1, Traumatic - 1

SUMMARY OF RESULTS OF VETERINARY INSPECTION - 1971

Type of Stockyard	"D"	"E"	"F"	Totals
Number of Stockyards	56	3	2	61
Number of Sales	3,464	53	3	3,520

Type of Stockyard	1971 Inspected	1970 Inspected	Change % of 1970	Rejected Diseased	% Rejected
"D" Cattle	819,272	751,175	+ 9.07	4,654	.57
Swine	599,193	578,159	+ 3.64	19,828	3.31
Sheep	33,116	25,085	+ 32.02	291	.77
Horses	9,547	9,558	- .12	65	.68
	1,461,128	1,363,977	+ 7.12	24,838	1.70
"E" Cattle	15,294	13,141	+ 16.38	88	.57
"F" Cattle	2,379	3,263	- 27.09	7	.29
	1,478,801	1,380,381	+ 7.13	24,933	1.68

CATTLE

Reasons for Rejection - Class "D", "E", and "F" Stockyards

	1967		1968		1969		1970		1971	
	Rej.	%	Rej.	%	Rej.	%	Rej.	%	Rej.	%
Abscess	50	1.30	53	1.40	40	.94	71	1.63	71	1.49
Arthritis	60	1.60	44	1.16	59	1.38	93	2.13	63	1.33
Cancer Eye	708	19.30	745	19.69	825	19.35	874	20.04	774	16.29
Dermatitis	5	.13	20	.53	10	.23	1	.02	22	.46
Enteritis	308	8.40	366	9.67	471	11.05	136	3.11	135	2.86
Footrot	42	1.14	38	1.03	53	1.24	50	1.15	51	1.07
Lice	95	2.50	66	1.74	24	.56	25	.67	45	.97
Lump-Jaw	492	13.40	478	12.63	374	8.77	311	7.13	302	6.35
Mastitis	453	12.30	386	10.20	393	9.22	343	7.87	330	6.95
Metritis	10	.27	10	.26	31	.73	11	.25	31	.64
Naval Infection	97	2.60	75	1.98	99	2.32	172	3.95	94	1.98
Pink-Eye	219	5.97	104	2.75	209	4.90	125	2.97	273	5.75
Pneumonia	244	6.66	284	7.51	340	7.97	525	12.04	812	17.10
Ringworm	143	3.90	164	4.32	115	2.70	70	1.24	94	1.97
Septicemia	23	.62	13	.34	43	1.01	57	1.30	66	1.39
Shipping Fever	83	2.26	58	1.53	120	2.81	100	2.29	228	4.82
Under Age	50	1.36	110	2.90	68	1.60	25	.67	25	.53
Warts	52	1.41	99	2.62	72	1.69	82	1.88	31	.64
Other Diseases	532	14.50	671	17.74	918	21.53	1289	29.66	1302	27.41
TOTALS:	3,663	99.99	3,784	100.00	4,264	100.00	4,360	100.00	4,749	100.00

S W I N E

Reasons for Rejection - Class "D" Stockyards

	1967 Rej.	%	1968 Rej.	%	1969 Rej.	%	1970 Rej.	%	1971 Rej.	%
Arthritis	696	8.46	803	6.45	641	4.95	784	4.42	1113	5.61
Dermatitis	439	5.33	424	3.40	185	1.43	249	1.40	85	.43
Enteritis	583	7.08	583	4.67	368	2.84	394	2.22	390	1.98
Erysipelas	44	.53	26	.21	31	.24	67	.38	79	.37
Glasser's Disease	53	.63	51	.41	33	.25	2	.01	-	-
Lice	43	.51	134	1.08	41	.32	70	.39	48	.24
Mange	2992	36.39	2796	22.44	1989	15.35	3601	20.32	3053	15.40
Pneumonia	442	5.37	520	4.18	314	2.42	502	2.83	710	3.59
Rhinitis	2156	26.22	3124	25.07	2687	20.74	3731	21.12	6085	30.69
Swine Pox	56	.67	75	.60	55	.42	20	.11	169	.85
Underweight			2976	23.89	5683	43.86	6618	37.36	6752	34.06
Worms	132	1.62	21	.17	2	.01	194	1.10	130	.67
Other Diseases	584	7.18	926	7.43	929	7.17	1478	8.34	1212	6.11
TOTALS:	8,220	99.99	12,459	100.00	12,958	100.00	17,710	100.00	19,828	100.00

S H E E P

Reasons for Rejection - Class "D" Stockyards

	1967 Rej.	%	1968 Rej.	%	1969 Rej.	%	1970 Rej.	%	1971 Rej.	%
Abscess							2	.32		
Enteritis	1	11.11								
Footrot	2	22.22			36	97.30	594	94.59	103	35.39
Keratitis							1	.16		
Lump-Jaw										
Lungworms			46	92.00						
Pink Eye									2	.69
Pneumonia	1	11.11	3	6.00	1	2.70	8	1.27	2	.69
Other Diseases	5	55.55	1	1.00			23	3.66	184	63.23
TOTALS:	9	99.99	50	100.00	37	100.00	628	100.00	291	100.00

HORSES

Reasons for Rejection - Class "D" Stockyards

	1967 Rej.	%	1968 Rej.	%	1969 Rej.	%	1970 Rej.	%	1971 Rej.	%
Arthritis					1	2.86				
Influenza					3	8.57	8	21.55	34	52.30
Pneumonia	1	3.70	2	14.29			4	11.23	3	4.62
Strangles	17	62.96	7	50.00	26	74.29	18	53.04	6	9.23
Warts	1	3.70								
Other Diseases	8	29.63	5	35.71	5	14.28	5	14.18	22	33.85
TOTALS:	27	99.99	14	100.00	35	100.00	35	100.00	65	100.00

CHICKEN DISEASE TABLE

DIAGNOSIS	EDMONTON	FAIRVIEW	LETHBRIDGE	TOTAL
Abscess	6	1	-	7
Acariasis	4	-	-	4
Air sacculitis	6	3	8	17
Ammonia burn	4	-	-	4
Amyloidosis	1	-	-	1
Anemia	2	3	1	6
Arizona inf	2	-	-	2
Arthrit-bacterial	2	-	-	2
Arthrit-staph	4	1	1	6
Arthrit-strep	1	-	-	1
Arthritis	1	-	1	2
Ascaridiasis	24	10	12	46
Ascites	1	-	7	8
Aspergillosis	13	1	-	14
Asphyxiation	6	-	1	7
Bluecomb	2	-	2	4
Breast blister	2	-	-	2
Bronchitis	-	-	1	1
Bumblefoot	1	-	-	1
Caged layer paralysis	8	-	-	8
Cannibalism	57	5	5	67
Capillariasis	40	2	1	43
Cardiac failure	1	2	-	3
Catarract	1	-	-	1
Cellulitis	-	-	1	1
Cestodiasis	-	-	1	1
Chondrodystrophy	19	-	3	22
Chronic respiratory disease	7	-	1	8

CHICKEN DISEASE TABLE (continued)

DIAGNOSIS	EDMONTON	FAIRVIEW	LETHBRIDGE	TOTAL
Cirrhosis	4	-	-	4
Clostridia inf	2	-	-	2
Coccidios cecal	11	1	8	20
Coccidios intestinal	121	6	13	140
Colibacillosis	157	-	1	158
Coligranuloma	19	-	-	19
Colisepticemia	30	-	14	44
Congenital defect	2	-	-	2
Conjunctivitis	1	-	-	1
Corneal opacity	1	-	-	1
Corneal ulceration	4	-	-	4
Cyst	-	-	1	1
Decomposed	-	-	1	1
Def-malnutrition	5	6	-	11
Def-nonspecific	3	-	-	3
Def-vit A	13	3	2	18
Def-vit B complex	-	1	-	1
Dehydration	8	1	10	19
Dermatitis	2	-	-	2
Edema	2	-	-	2
Eggbound	1	-	-	1
Emaciation	5	-	4	9
Emphysema	-	-	1	1
Encephalit-avian	11	5	-	16
Encephalitis	1	3	1	4
Encephalomalacia	2	-	1	3
Endocarditis	7	-	-	7
Enterit-E-Coli	40	-	-	40
Enterit-necrot	27	-	11	38

CHICKEN DISEASE TABLE (continued)

DIAGNOSIS	EDMONTON	FAIRVIEW	LETHBRIDGE	TOTAL
Enterit-transmissible	-	-	4	4
Enterit-ulcerative	5	-	-	5
Enterit-unknown	5	-	-	5
Enteritis	80	2	19	101
Enteritis catarrhal	16	-	2	18
Erysipelas	2	-	-	2
Experimental	61	-	-	61
Fatty kidney syndrome	1	-	-	1
Fatty liver syndrome	52	1	6	59
Fatty metamorphosis	10	-	1	11
Feathering poor	2	-	-	2
For identification	1	-	-	1
Fowl Cholera	18	1	-	19
Fracture	4	1	-	5
Gizzard erosion	11	-	3	14
Gizzard impaction	6	-	1	7
Gizzard necrosis	5	-	-	5
Gizzard perforation	4	1	-	5
Gout	2	-	4	6
Gout-visceral	73	-	-	73
Hematoma	3	-	-	3
Hemorrhage	14	-	-	14
Hemorrhage disease	13	-	9	22
Hemorrhagic liver syndrome	2	-	-	2
Hepatic necrosis	12	1	1	14
Hepatitis	3	4	1	8
Hepatitis-bacterial	2	-	-	2
Hepatitis-inclusion body	2	-	-	2
Hepatitis-unknown	3	-	-	3

CHICKEN DISEASE TABLE (continued)

DIAGNOSIS	EDMONTON	FAIRVIEW	LETHBRIDGE	TOTAL
Hepatitis-vibrionic	2	-	-	2
Hernia-abdominal	-	1	-	1
Histomoniasis	6	-	-	6
Hysteria	1	-	-	1
Impact-oviduct	5	-	-	5
Impaction	1	-	1	2
Improper debeaking	3	-	-	3
Inf-bronchitis	4	1	2	7
Inf-coryza	1	-	-	1
Inf-synovitis	-	-	1	1
Inf-yolk sac	38	-	-	38
Intestinal impaction	1	-	-	1
Intestinal perforation	2	-	-	2
Intussusception	2	-	-	2
Keratitis	-	-	1	1
Keratoconjunctivitis	3	-	-	3
Kinky back	7	3	-	10
Lab exams neg	82	3	32	117
Leg weakness	5	-	-	5
Leukosis-erythroblastosis	1	-	-	1
Leukosis-lymphoid	136	3	9	148
Leukosis-myelogenous	2	-	-	2
M-gallisepticum	4	-	-	4
M-synoviae	1	-	-	1
Mareks dis-gen	292	2	64	358
Mareks dis-neural	57	7	-	64
Meningitis	1	-	-	1
Misc Lab findings	1	-	-	1
Mismanagement	-	1	17	18

CHICKEN DISEASE TABLE (continued)

DIAGNOSIS	EDMONTON	FAIRVIEW	LETHBRIDGE	TOTAL
Moniliasis	2	-	-	2
Myco-geotricum candidum	1	-	-	1
Myco-mucor sp	1	-	-	1
Myocarditis	2	-	-	2
Myopathy	9	1	1	11
Mycoplasma sp	4	-	-	4
Myositis	-	-	1	1
N-Adenoc	2	-	1	3
N-Adenoc-biliary	1	-	-	1
N-Adenoma ovary	2	-	-	2
N-Carcinoma	2	1	-	3
N-Embryonal nephroma	10	-	-	10
N-Fibrosarcoma	2	-	-	2
N-Hemangioma	2	-	-	2
N-Hemangiosarcoma	2	-	-	2
N-Histiosarcoma	7	-	-	7
N-Leiomyoma	2	-	-	2
N-Myxoma	1	-	-	1
N-Other	-	-	1	1
N-Seminoma	1	-	-	1
N-Unidentified	1	-	-	1
Necrosis	2	-	-	2
Necrosis-plantar	3	-	-	3
Neg-Salm Para	56	-	-	56
Negative-Mycoplasma	2	-	-	2
Negative-Salmonella	1	-	-	1
Nephritis	5	-	-	5
Nephrosclerosis	1	-	-	1
Nephrosis	24	-	-	24

CHICKEN DISEASE TABLE (continued)

DIAGNOSIS	EDMONTON	FAIRVIEW	LETHBRIDGE	TOTAL
No diagnosis	195	15	31	241
No test	1	-	1	2
Obstruct-intestinal	-	1	-	1
Omphalitis	38	8	11	57
Osteodystrophy	1	-	-	1
Osteomyelitis-syn	-	-	4	4
Overheating	5	-	-	5
Panophthalmitis	2	-	-	2
Paralysis	1	-	-	1
Paralysis-transient	-	1	-	1
Pasted vent	3	1	-	4
Pediculosis	5	-	-	5
Pendulous crop	5	-	-	5
Pericarditis	2	-	-	2
Peritonitis	11	-	-	11
Perosis	31	4	4	39
Pneum-bacterial	1	-	-	1
Pneum-suppurative	1	-	-	1
Pneumonia	4	-	-	4
Prolapse cloaca	1	-	-	1
Proventriculus	1	-	-	1
Pullorum reactor	4	-	-	4
Pyelonephritis	1	-	-	1
Reproductive disorder	58	5	-	63
Rickets	13	2	3	18
Rupture-egg	1	-	8	9
Rupture-yolk	10	-	9	19
Salpingitis	4	-	-	4
Salmonellosis	21	-	3	24

CHICKEN DISEASE TABLE (continued)

DIAGNOSIS	EDMONTON	FAIRVIEW	LETHBRIDGE	TOTAL
Satisfactory	2	-	1	3
Septicemia	2	-	1	3
Sinusitis	1	-	-	1
Specimen unsuitable	24	1	1	26
Spraddle leg	-	1	-	1
Staphylococcosis	73	-	-	73
Starvation	2	-	-	2
Starve out	29	1	3	33
Streptococcosis	6	-	-	6
Suitable for human use	9	-	-	9
Synovitis	1	-	1	2
Tendon rupture	1	-	-	1
Tibial rotation	6	4	-	10
Torsion-intestinal	1	-	-	1
Tox-drugs	-	1	-	1
Tox-mercury	2	-	-	2
Tox-negative	1	-	-	1
Tox-sodium ion	-	-	9	9
Tox-sulfa	9	-	-	9
Tox-unknown	2	-	-	2
Tracheitis	2	-	2	4
Trauma	15	-	2	17
Trichomoniasis	1	-	-	1
Tuberculosis	13	2	2	17
Ulcer	1	-	-	1
Unsuitable for human use	2	-	-	2
Xanthomatosis	1	-	-	1

TURKEY DISEASE TABLE

DIAGNOSIS	EDMONTON	FAIRVIEW	LETHBRIDGE	TOTAL
Air sacculitis	27	-	10	37
Aortic rupture	4	-	1	5
Arizona inf	21	-	8	29
Arthrit-suppurative	1	-	-	1
Arthritis	1	1	1	3
Ascites	13	-	3	16
Aspergillosis	9	-	-	9
Asphyxiation	1	-	-	1
Blepharitis	1	-	-	1
Cannibalism	1	-	-	1
Chondrodystrophy	4	-	-	4
Chronic respiratory disease	1	-	-	1
Cirrhosis	2	-	-	2
Coccidios cecal	-	1	-	1
Colibacillosis	22	-	-	22
Coligranuloma	3	-	-	3
Colisepticemia	3	-	-	3
Conjunctivitis	2	1	-	3
Def - biotin	1	-	-	1
Def - lysine	-	1	-	1
Def - malnutrition	1	-	-	1
Def - nonspecific	1	-	-	1
Def - Vit B complex	-	1	-	1
Dehydration	2	-	1	3
Dermatitis	2	-	-	2
Dermatitis - foot	2	-	-	2
Dermatitis - nutritional	1	-	-	1
Encephalomalacia	-	1	-	1
Enterit-E-Coli	13	-	-	13

TURKEY DISEASE TABLE (continued)

DIAGNOSIS	EDMONTON	FAIRVIEW	LETHBRIDGE	TOTAL
Enterit-hemorrhagic	7	-	-	7
Enterit-necrot	3	-	1	4
Enterit-transmissible	1	-	12	13
Enteritis	3	-	1	4
Enteritis catarrhal	3	-	-	3
Erysipelas	3	-	1	4
Fatty metamorphosis	1	-	-	1
For identification	1	-	-	1
Fowl Cholera	15	-	3	18
Gizzard impaction	3	-	-	3
Gizzard necrosis	2	-	-	2
Hepatitis-unknown	1	-	-	1
Hepatitis-vibrionic	1	-	-	1
Hepatosis	1	-	-	1
Histomoniasis	9	-	3	12
Hyperpl-biliary	2	-	-	2
Inf-sinusitis	6	-	-	6
Inf-yolk sac	3	-	-	3
Lab exams neg	9	-	3	12
Leukosis-lymphoid	3	-	-	3
Litter eating	2	-	-	2
M-gallisepticum	24	-	-	24
Mareks dis-gen	-	-	1	1
Mismanagement	-	-	1	1
Moniliasis	13	-	-	13
Mycoplasma sp	4	-	-	4
Mycoplasmosis	1	-	-	1
Myopathy	1	-	-	1
N-Adenoc-biliary	1	-	-	1

TURKEY DISEASE TABLE (continued)

DIAGNOSIS	EDMONTON	FAIRVIEW	LETHBRIDGE	TOTAL
Necrosis-beak	-	1	-	1
Neg-Salm Para	23	-	-	23
Negative-Mycoplasma	1	-	-	1
No diagnosis	21	-	2	23
No test	1	-	-	1
Omphalitis	9	2	1	12
Pneum-suppurative	2	-	-	2
Pneumonia	1	-	-	1
Pericarditis	1	-	-	1
Peritonitis	2	-	-	2
Perosis	5	-	1	6
Reproductive disorder	3	-	-	3
Rickets	2	-	-	2
Salmonellosis	9	-	-	9
Satisfactory	1	-	-	1
Specimen unsuitable	5	-	-	5
Staphylococcosis	13	1	-	14
Starve out	15	3	-	18
Streptococcosis	1	-	-	1
Suitable for human use	1	-	-	1
Synovitis	1	-	-	1
Tibial rotation	1	-	-	1
Tox-fuel oil	1	-	-	1
Tox-mouldy feed	1	-	-	1
Tracheitis	2	-	-	2
Trauma	5	-	-	5
Unsuitable for human use	2	-	-	2

MISCELLANEOUS BIRDS DISEASE TABLE

DIAGNOSIS	EDMONTON	FAIRVIEW	LETHBRIDGE	TOTAL
ATLANTIC BRANT				1
Sinusitis	1			
	1			
BANTAM				2
Def-Vit A	1			
Enteritis	1			
	2			
BUDGERIGAR				38
Abscess-liver; N-Adenoc-biliary	1			
Air sacculitis			1	
Aspergillosis	1			
Enteritis	6			
Hepatic necrosis			1	
Lab exams neg	1			
N-Adenoc			1	
N-Adenoc-biliary	1			
N-Carc-Thyroid	1			
N-Carcinoma	1			
N-Fibrosarcoma	1			
N-Histiosarcoma	1			
N-Lymphosarcoma	2			
N-Papilloma	2			
No diagnosis	11			
Obesity	1			
Salmonellosis	2			
Staphylococcosis	2			
Trauma			1	
	34		4	
CANARY				6
Enterit-Hemorrhagic			1	
Gizzard impaction	1			
Gout-visceral	1			
Lab exams neg			1	
Leukosis	1			
N-Other			1	
	3		3	
CARDINAL				1
No diagnosis			1	
			1	
CRANE, SANDHILL				1
No diagnosis	1			
	1			
DOVE, DIAMOND				1
Pasteurellosis	1			
	1			
DOVE, RING-NECKED				1
Salmonellosis	1			
	1			

MISCELLANEOUS BIRDS DISEASE TABLE (continued)

DIAGNOSIS	EDMONTON	FAIRVIEW	LETHBRIDGE	TOTAL
DOVE, WHITE				1
Salmonellosis	1			
	1			
DUCK (DOMESTIC)				44
Abscess		1		
Air sacculitis; Colibacillosis	1			
Antipestifer	4			
Aspergillosis	2			
Colibacillosis	3			
Colibacillosis; B-Staph aureus	3			
Coliseptic emia	3			
Enterit-E-Coli	1			
Erysipelas	2			
Lab exams neg	12		2	
Meningitis			1	
Mismanagement			1	
Specimen unsuitable	1		1	
Trauma	2			
Ulcer		1		
	37	2	5	
DUCK, MALLARD				16
Impact-bowel	1			
Gout-visceral	1			
Gunshot	13			
No diagnosis	1			
	16			
DUCK, PIN-TAILED				7
No diagnosis	7			
	7			
DUCK, RED-HEADED				1
No diagnosis	1			
	1			
DUCK, SCAUP				9
Aspergillosis	3			
Def-Vit A	2			
Enterit-E-Coli	3			
Enterit-chronic	1			
	9			
DUCK, SHOVELLER				1
Gunshot	1			
	1			
DUCK, WHITE PEKIN				23
Experimental	23			
	23			
DUCK (WILD)				2
Unsuitable for human use	2			
	2			

MISCELLANEOUS BIRDS DISEASE TABLE (continued)

DIAGNOSIS	EDMONTON	FAIRVIEW	LETHBRIDGE	TOTAL
FINCH				3
Cardiac failure	1			
Lab exams neg			1	
Nephritis; B-E-Coli	1			
	2		1	
FINCH, MELBA				1
No diagnosis	1			
	1			
GOOSE (DOMESTIC)				35
Abscess		1		
Air sacculitis			1	
Amyloidosis	1			
Coccidios intestinal		1		
Colibacillosis; Gout-visceral	5			
Enteritis			1	
Enterit-Necrot			1	
Fracture			1	
Inf-yolk sac	3			
Lab exams neg			1	
Malnutrition		1		
Mismanagement			3	
Muco-mucor sp	1			
No diagnosis	3		1	
P-Capillaria sp			1	
Pneumonia			1	
Pullmonary edema			1	
Rickets		1		
Salmonellosis	2			
Specimen unsuitable	1			
Staphylococcosis	1			
Suitable for human use	1			
Synovitis; Encephalomalacia	1			
	19	4	12	
GOOSE, EMPEROR				1
No diagnosis	1			
	1			
GOOSE, ROSS SNOW				1
Trauma	1			
	1			
GOOSE (WILD)				1
Hemorrhage	1			
	1			
GROUSE				1
Inflammation		1		
		1		
GROUSE, RUFFED				1
Mareks dis-gen	1			
	1			

MISCELLANEOUS BIRDS DISEASE TABLE (continued)

DIAGNOSIS	EDMONTON	FAIRVIEW	LETHBRIDGE	TOTAL
GROUSE, SHARP-TAILED				1
Asphyxiation; Mycosis	1			
	1			
GULL				1
Asphyxiation	1			
	1			
GULL, FRANKLIN				3
Trauma	3			
	3			
GULL, RING-BILLED				4
Intestinal impaction	1			
Starvation; Trauma	3			
	4			
HAWK, RED-TAILED				1
No diagnosis	1			
	1			
LARK, HORNED				1
Lab exams neg	1			
	1			
MAGPIE				6
Emaciation			1	
Gunshot	1			
Lab exams neg	2		1	
No diagnosis	1			
	4		2	
MERLIN, RICHARDSON'S				1
No diagnosis	1			
	1			
MYNAH BIRD				3
Lab exams neg			1	
Mycosis; Myco-aspergillus sp	1			
Septicemia			1	
	1		2	
OSTRICH				1
Aspergillosis; P-Tapeworm	1			
	1			
PARAKEET				4
Lab exams neg			3	
No diagnosis	1			
	1		3	
PARAKEET, SPLENDID				2
No diagnosis	2			
	2			
PARROT, HALF MOON				1
No diagnosis	1			
	1			

MISCELLANEOUS BIRDS DISEASE TABLE (continued)

DIAGNOSIS	EDMONTON	FAIRVIEW	LETHBRIDGE	TOTAL
PARTRIDGE, CHUKAR				2
Histomoniasis	2			
	2			
PEACOCK				16
Crop mycosis	1			
Hepatic cirrhosis	12			
Listeriosis; Aspergillosis; Hepatitis-vibrionic	1			
Tuberculosis suspected	1			
Typhlitis			1	
	15		1	
PEAFOWL				3
Tracheitis	3			
	3			
PHEASANT				7
Aspergillosis	1		1	
Gunshot	1			
Sinusitis; Mycoplasma sp	3			
Trauma			1	
	5		2	
PHEASANT, GOLDEN				1
N-Adenoc	1			
	1			
PHEASANT, RING-NECKED				2
Gout-visceral	1			
Trauma	1			
	2			
PHEASANT, SILVER				1
Gout-visceral	1			
	1			
PIGEON				18
B-Pseudomonas sp	3			
Emaciation			1	
Enteritis catarrhal Staphylococcosis	3			
Enterit-necrot			1	
Hepatitis-unknown			1	
Lab exams neg	5			
No diagnosis	1			
Pendulous crop	1			
Staphylococcosis; Mycoplasma sp	1			
Trichomoniasis	1			
	13		3	
PIGEON, HOMING				1
Def-Vit A	1			
	1			
PIGEON, RACING				6
Capillariasis; Trichomoniasis	4			
Nephritis	1			
No diagnosis	1			
	6			

MISCELLANEOUS BIRDS DISEASE TABLE (continued)

DIAGNOSIS	EDMONTON	FAIRVIEW	LETHBRIDGE	TOTAL
PURPLE GALLINULE				1
Tuberculosis	1			
	1			
QUAIL, JAPANESE				3
Cannibalism	2			
Trauma	1			
	3			
ROBIN				2
B-Past-multocida	1			
No test			1	
	1		1	
SPARROW, ENGLISH				20
Tox-Strychnine	20			
	20			
STARLING				1
Lab exams neg			1	
			1	
SWAN, AUSTRALIAN BLACK				2
Thyroid hyperplasia	1			
Thyroid hyperplasia; Aspergillosis	1			
	2			
SWAN, WHISTLING				1
No diagnosis			1	
			1	
TOUCAN				1
Lab exams neg			1	
			1	
WAXWING, CEDAR				1
Trauma	1			
	1			

MISCELLANEOUS SPECIMENS TABLE

DIAGNOSIS	SUB TOTAL	TOTAL
BLOOD (CHICKEN)		6894
Blood test-negative	39	
Experimental	472	
Negative M. gallisepticum	100	
Negative M. gallisepticum & S. typhimurium	5997	
Positive M. gallisepticum & Negative S. typhimurium	224	
Positive S. typhimurium & negative M. gallisepticum	62	
	6894	
BLOOD SMEARS (FALCON)		23
For hematology	23	
	23	
BLOOD (TURKEY)		3468
Negative Newcastle	4	
Negative M. gallisepticum & S. typhimurium	3239	
Positive M. gallisepticum & Negative S. typhimurium	141	
Positive Newcastle	20	
Positive S. typhimurium & Negative M. gallisepticum	64	
	3468	
EGGS (CHICKEN)		242
Lab exams neg	29	
M. gallisepticum	13	
Myco-Aspergillus sp.	8	
Myco-Penicillium sp.	14	
Neg-Salm Para	146	
No diagnosis	4	
Suitable for human use	24	
Tox-mercury; Suitable for human use	4	
	242	
EGGS (TURKEY)		111
Arizona infection	16	
Lab exams neg	7	
Neg-Salm Para	83	
Omphalitis	5	
	111	
DUST SAMPLE		1
For culture	1	
	1	
EGGSHELL (CHICKEN)		1
Specimen unsuitable	1	
	1	
FECAL SAMPLE (BUDGIE)		2
For culture	1	
Lab exams neg	1	
	2	
FECAL SAMPLE (PARROT)		1
B-E-Coli	1	
	1	

MISCELLANEOUS SPECIMENS TABLE (continued)

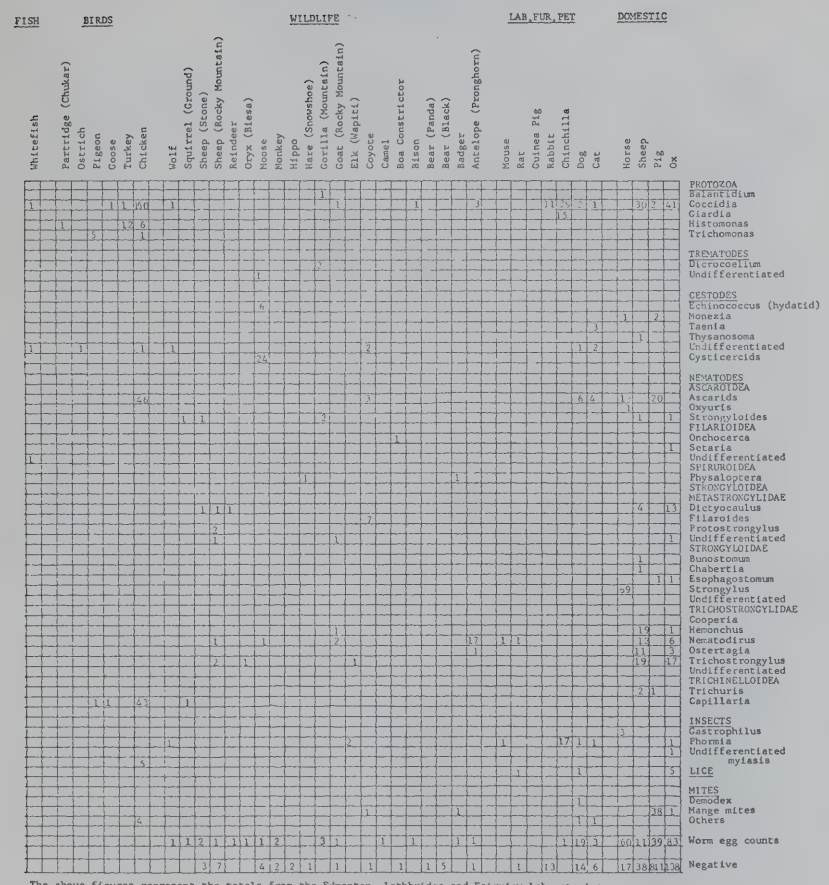
DIAGNOSIS	SUB TOTAL	TOTAL
FECAL SAMPLE (PIGEON)		1
Lab exams neg	1	
	1	
FEATHER SAMPLE (BUDGIE)		1
Lab exams neg	1	
	1	
FEATHER SAMPLE (CHICKEN)		1
P-Mites	1	
	1	
FEED		31
Feed analysis	16	
For culture	1	
Lab exams neg	1	
Neg-Salm Para	9	
No test	1	
Satisfactory	1	
Tox-negative	2	
	31	
LITTER SAMPLE		2
For culture	1	
For identification	1	
	2	
MISCELLANEOUS SAMPLES		1
For identification	1	
	1	
SWAB		6
B-E-Coli; B-Proteus sp.	6	
	6	
WATER		46
For culture	1	
Lab exams neg	5	
Neg-Salm Para	2	
Satisfactory	38	
	46	

TOXICOLOGICAL EXAMINATIONS
(Fairview & Lethbridge specimens included)

POISON	BOVINE	PORCINE	EQUINE	OVINE	CANINE	FELINE	MISC.	AVIAN	TOTAL
Arsenic	2				2				4
Chlor-hydrocarbon	1								1
Chlorate				1					1
Copper				3					3
Cresol				1					1
Crude oil	1								1
Dicoumarin	2				1	1			4
Drugs				1				1	2
Ethylene glycol						3			3
Fuel oil				1				1	2
Herbicides	1								1
Iron		2							2
Lead	50	1	3		2	1	1		58
Mercury		1						2	3
Mouldy feed								1	1
Nitrate	2								2
Other					1				1
Phenol	11			1					12
Plant	2			1					3
Potato		1							1
Sodium ion	1	8						9	18
Strychnine	1	1			70	9	1	1	83
Sulfa								9	9
Suspected	8	1	1	3	1				14
Thallium	1								1
Unknown	1	1		1	1			2	6
Warfarin					1				1

	238
Negative for poisoning	172
Feed - Satisfactory	67
Unsatisfactory	14
Water - Satisfactory	115
Unsatisfactory	39
GRAND TOTAL	645

ANIMAL, POULTRY AND FISH PARASITES



The above figures represent the totals from the Edmonton, Lethbridge and Fairview Laboratories.
Fecal examinations, whole animal examinations and, in some cases, individual parasite submissions are considered.

Trichinella survey - 837 pork submissions originating from a province-wide sampling were examined.
No evidence of Trichinellae was observed.

SALMONELLA TABLE 1961 - 1971
POULTRY PARATYPHOID ISOLATES

TYPING	'61	'62	'63	'64	'65	'66	'67	'68	'69	'70	'71
S. oranienburg	1	-	2	1	-	-	-	-	-	-	2
S. typhimurium	29	25	23	16	1	13	2	6	6	18	17
S. thompson	2	2	2	-	-	-	-	-	1	1	2
S. bareilly	6	-	-	-	-	-	-	1	-	1	-
S. senftenberg	1	-	-	-	-	-	-	-	-	-	-
S. california	-	-	-	-	-	3	-	-	-	-	1
S. anatum	-	-	-	1	-	-	-	-	-	-	-
S. newport	-	-	-	-	-	-	-	-	1	-	1
S. minnesota	-	1	-	-	-	-	-	-	-	-	-
S. bredeney	1	7	2	-	-	-	-	-	-	1	2
S. newington	19	3	2	1	-	-	-	-	-	-	-
S. kentucky	-	-	1	-	-	-	-	-	-	-	-
S. tennessee	-	1	-	2	1	-	-	-	-	-	-
S. heidelberg	72	28	9	4	6	3	2	2	3	2	1
S. worthington	-	-	-	-	-	-	-	-	-	-	1
S. san diego	-	1	-	-	-	-	-	-	-	-	-
S. enteriditis	-	-	1	-	-	-	-	1	-	6	2
S. derby	3	-	-	-	1	-	-	-	-	-	-
S. montevideo	13	-	1	2	1	-	1	-	3	-	-
S. gallinarum	-	-	-	-	1	-	-	-	-	-	-
S. manhattan	1	-	1	1	-	-	-	1	1	1	1
S. budapest	1	-	-	-	-	-	-	-	-	-	-
S. muenchen	-	1	-	-	-	-	-	-	-	-	-
S. paratyphi B.	-	5	-	-	-	-	-	-	-	-	-
S. infantis	-	-	4	1	1	6	1	-	1	1	3
S. saint paul	-	-	-	-	-	-	-	1	-	1	3
S. blockley	-	-	-	-	-	-	-	-	7	2	1
S. eimsbuettel	-	-	-	-	-	-	-	-	-	1	-
S. marina	-	-	-	-	-	-	-	-	-	1	-
S. muenster	-	-	-	-	-	-	-	-	-	1	-
S. haardt	-	-	-	-	-	-	-	-	-	-	1
Not typed	7	3	6	4	1	-	-	-	-	-	-
S. rough-Not typed	2	4	-	-	-	-	-	-	-	-	-
TOTALS	158	81	54	33	13	25	6	12	23	37	38

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SALMONELLA ISOLATIONS

Type	Bovine	Porcine	Misc. An.	Turkey	Chicken	Misc. Pty.	Total
anatum			1				1
blockley				1			1
bredeney					2		2
california			1		1		2
carrau			1				1
enteritidis					2		2
haardt					1		1
heidelberg		3					3
infantis		1		1	1		3
manhattan				1			1
newport					1		1
oranienburg				1	1		2
saint paul		2			1		3
thompson			1		1		2
typhimurium	10	1	1	6	6	3	29
worthington					1		
TOTAL	10	7	15	10	21	3	56

NEOPLASMS - 1971

Neoplasms	Bovine	Canine	Equine	Feline	Ovine	Porcine	Poultry	Fur-Bearing Animals	Misc.	TOTAL
Adamantinoma		2	1	1						4
Adenoma	1	6	1				1			10
Amelantic Melanoma		4								4
Aortic Body Tumor		1								1
Arrhenoblastoma							1			1
Astrocytoma		1		1			1			1
Calcinosis Circumscripta		2								2
Carcinomas										
Adeno-carcinoma	6	18		6	1		12	1	1	45
Anal Gland-carcinoma		17								17
Anaplastic-carcinoma		1								1
Basal-cell-carcinoma		11		3						14
Bile-duct-carcinoma							1			1
Bronchiogenic-carcinoma		2								2
Cyst-adeno-carcinoma		3		1					1	5
Gastric-carcinoma		1								1
Mucoid-carcinoma		1								1

NEOPLASMS - 1971

Neoplasms	Bovine	Canine	Equine	Feline	Ovine	Porcine	Poultry	Fur-Bearing Animals	Misc.	TOTAL
Pancreatic-carcinoma		1								1
Squamous-cell-carcinoma	9	14	4	1	1		1			30
Subaceous-gland-carcinoma	17									17
Thyroid-carcinoma		1								1
Transitional-cell-carcinoma				1						1
Chondroma		1								1
Dermoid-ocular	1									1
Embryonal Nephroma							12			12
Epidermal Cyst		19	1							20
Epithelioma		3							1	4
Epulis		7								7
Fibroma	3	3					1		6	13
Fibropapilloma	11	1		1						13
Granuloma				1			24			25
Granulosa-cell Tumour		2					1			3
Hemangioma	2	5	1				2			10
Hemangiopericytoma		5								5

NEOPLASMS - 1971

Neoplasm	Bovine	Canine	Equine	Feline	Ovine	Porcine	Poultry	Fur-Bearing Animals	Misc.	TOTAL
Hematoma	1	1					2			4
Heptoma		1								1
Histiocytoma		32								32
Interstitial-cell Tumour		1								1
Keratoacanthoma		7								7
Leiomyoma	1	2					4			7
Lipoma	2	21	2	1						26
Lymphocytoma		1								1
Lymphoma	2			5					3	10
Malignant Melanoma	1	15		1						17
Mastocytoma		27					1			28
Melanoma	2	8		1					1	12
Mixed Mammary Tumour		44		3						47
Myelocytoma		1					1			2
Myeloma		2					1			3
Myxoma		1		1						2

NEOPLASMS - 1971

Neoplasm	Bovine	Canine	Equine	Feline	Ovine	Porcine	Poultry	Fur-Bearing Animals	Misc.	TOTAL
Neurofibroma			1							1
Osteoma			1							1
Other		1					1			2
Ovarian Tumour							1			1
Papilloma	16	5	4	1	1		1		1	29
Pheochromocytoma	1									1
Polyp	1									1
Rhabdomyoma	1									1
Sarcoid			12							12
Sarcomas										
Chrondro-sarcoma	1	4		1						6
Fibro-sarcoma		15	6	4			6			31
Hemangio-sarcoma		3		1			3			7
Histiocytic-sarcoma							6			6
Leiomyo-sarcoma				1						1
Lipo-sarcoma		3	1							4

NEOPLASMS - 1971

Neoplasm	Bovine	Canine	Equine	Feline	Ovine	Porcine	Poultry	Fur-Bearing Animals	Misc.	TOTAL
Lympho-sarcoma	10	19	1	21			2	1	1	55
Myxo-sarcoma	1	3					1			5
Rhabdomyo-sarcoma						1				1
Osteo-sarcoma		5	1				1			7
Seminoma		8					1			9
Sertoli-cell Tumour		5								5
Transmissible Veneral Tumour		2								2
Trichoepithelioma		15	1							16
Unidentified	1									1
TOTALS	74	401	38	57	3	1	88	2	16	680

Totals include figures from Lethbridge and Fairview